

U.S.S.N.: 08/126,505

Filed: September 24, 1993

Preliminary Amendment, Response to Notice to Comply With
Requirements for Patent Applications Containing Nucleotide and/or
Amino Acid Sequence Disclosures and Declaration under 37 C.F.R. §
1.821(f)

In the Claims

Sub C4
Sub A100
8. (amended) The analog of claim 2 wherein the protein contains a change within a short consensus repeat that corresponds with a change to complement receptor one selected from the group consisting of:

CR1-4 with its first 122 amino acids (SCR1-2) (Sequence ID Nos. 1 and 3) replaced with CR1 amino acids 497-618 (SCR 8-9) (Sequence ID Nos. 2 and 4) and CR1-4(8,9) with deletion of 194-253; substitution of amino acids 271-543 with: T-R-T-T-F-H-L-G-R-K-C-S-T-A-V-S-P-A-T-T-S-E-G-L-R-L-C-A-A-H-P-R-E-T-G-A-L-Q-P-P-H-V-K (Sequence ID No. 11), or structurally similar amino acids.

9. (amended) The analog of claim 2 wherein the protein contains a change within a short consensus repeat that corresponds with a change to complement receptor one selected from the group consisting of:

79: D (amino acid 19 of Sequence ID No. 4); 37, [39]79: Y, D (amino acid 37 of Sequence ID No. 2 and amino acid 19 of Sequence ID No. 4); 92: T (amino acid 32 of Sequence ID No. 4); 109-112: N-A-A-H (amino acids 49-52 of Sequence ID No. 4); 109-112, 114-117, 121: N-A-A-H, S-T-K-P...Q (amino acids 49-52, 54-57, 61 of Sequence ID No. 4); 114-117, 121: [N-A-A-H,] S-T-K-P...Q (amino acids 54-61 of Sequence ID No. 4); 116: K (amino acid 56 of Sequence ID No.

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Sub C4 cont.
Sub A-100 cont.
4); 116,117: K-P (amino acids 56-57 of Sequence ID No. 4); 92-94:
K...Y (amino acids 32-34 of Sequence ID No. 3); 99,103,106:
S...T...I (amino acids 39, 43 and 46 of Sequence ID No. 3); 109-
112: [P-T-V-I] D-T-V-I (amino acids 49-52 of Sequence ID No. 3);
110: T (amino acid 50 of Sequence ID No. 3); 111: V (amino acid
51 of Sequence ID No. 3); 112: I (amino acid 52 of Sequence ID
No. 3); 114: D (amino acid 54 of Sequence ID No. 3); 115: N
(amino acid 55 of Sequence ID No. 3); 121: D (amino acid 61 of
Sequence ID No. 3); 117: T (amino acid 57 of Sequence ID No. 3);
1,3: Q...N (amino acids 1,3 of Sequence ID No. 1); 6-9: E-W-L-P
(amino acids 6-9 of Sequence ID No. 1); 12-16, 18-21: K-L-K-T-
Q...N-A-S-D (amino acids 12-21 of Sequence ID No. 2); 27,29:
S...K (amino acids 27,29 of Sequence ID No. 2); 37: S (amino acid
37 of Sequence ID No. 1); 44, 47, 49: I...K...S (amino acids 44,
47, 49 of Sequence ID No. 1); 52-54, 57, 59: T-G-A...R...R
(amino acids 52-54, 57, 59 of Sequence ID No. 1); 78-79, 82: K-
G...F (amino acids 18-19, 22 of Sequence ID No. 3); 85, 87: Q...K
(amino acids 25, 27 of Sequence ID No. 3); 12-16, 18-21: [R-P-T-
N-L...D-E-R-E] R-P-T-N-L...D-E-F-E (amino acids 12-21 of Sequence
ID No. 1); 27,29: Y...N (amino acids 27, 29 of Sequence ID No.
1); 35, 64-65, 94: G...R-N...Y (amino acid 35 of Sequence ID No.

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1, amino acids 4-5, 34 of Sequence ID No. 3), substitutions with
structurally similar amino acids, and combinations thereof.

10. (amended) The analog of claim 2 wherein the
complement regulatory protein is decay accelerating factor

wherein one or more substitutions are introduced into the region
of the protein corresponding to decay accelerating factor short

consensus repeats SCRs 2-3 selected from the group consisting of

180-187: S-T-K-P-P-I-C-Q (amino acids 54-61 of Sequence ID No.

4); 175-178: N-A-A-H (amino acids 49-52 of Sequence ID No. 4);

175-187: S-T-K-P-P-I-C-Q-N-A-A-H (Sequence ID No. 9); 130: R

(amino acid 4 of Sequence ID No. 3); 145: D (amino acid 19 of

Sequence ID No. 4); 77-84: K-L-K-T-Q-T-N-A-S-D (amino acids 12-21

of Sequence ID No. 2); 90-92: S-L-K (amino acids 27-29 of

Sequence ID No. 2), substitutions with structurally similar amino
acids, and combinations thereof.

23. (amended) The method of claim 17 wherein the
protein contains a change within a short consensus repeat that
corresponds with a change to complement receptor one selected
from the group consisting of:

CR1-4 with its first 122 amino acids (SCR1-2) (Sequence
ID Nos. 1 and 3) replaced with CR1 amino acids 497-618 (SCR 8-9)
(Sequence ID Nos. 2 and 4) and CR1-4(8,9) with deletion of 194-

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253; substitution of amino acids 271-543 with: T-R-T-T-F-H-L-G-
R-K-C-S-T-A-V-S-P-A-T-T-S-E-G-L-R-L-C-A-A-H-P-R-E-T-G-A-L-Q-P-P-
H-V-K (Sequence ID No. 11), or structurally similar amino acids.

24. (amended) The method of claim 17 wherein the
protein contains a change within a short consensus repeat that
corresponds with a change to complement receptor one selected
from the group consisting of:

79: D (amino acid 19 of Sequence ID No. 4); 37,[39]79: Y,D (amino
acid 37 of Sequence ID No. 2 and amino acid 19 of Sequence ID No.
4); 92: T (amino acid 32 of Sequence ID No. 4); 109-112: N-A-A-H
(amino acids 49-52 of Sequence ID No. 4); 109-112, 114-117, 121:
N-A-A-H, S-T-K-P...Q (amino acids 49-52, 54-57, 61 of Sequence ID
No. 4); 114-117, 121: [N-A-A-H,] S-T-K-P...Q (amino acids 54-61
of Sequence ID No. 4); 116: K (amino acid 56 of Sequence ID No.
4); 116,117: K-P (amino acids 56-57 of Sequence ID No. 4); 92-94:
K...Y (amino acids 32-34 of Sequence ID No. 3); 99,103,106:
S...T...I (amino acids 39, 43, 46 of Sequence ID No. 3); 109-112:
[P-T-V-I] D-T-V-I (amino acids 49-52 of Sequence ID No. 3); 110:
T (amino acid 50 of Sequence ID No. 3); 111: V (amino acid 51 of
Sequence ID No. 3); 112: I (amino acid 52 of Sequence ID No. 3);
114: D (amino acid 54 of Sequence ID No. 3); 115: N (amino acid
55 of Sequence ID No. 3); 121: D (amino acid 61 of Sequence ID

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Sub
A-100
cont.

No. 3); 117: T (amino acid 57 of Sequence ID No. 3); 1,3: Q...N
(amino acids 1,3 of Sequence ID No. 1); 6-9: E-W-L-P (amino acids
6-9 of Sequence ID No. 1); 12-16, 18-21: K-L-K-T-Q...N-A-S-D
(amino acids 12-21 of Sequence ID No. 2); 27,29: S...K (amino
acids 27 and 29 of Sequence ID No. 2); 37: S (amino acid 37 of
Sequence ID No. 1); 44, 47, 49: I...K...S (amino acids 44, 47, 49
of Sequence ID No. 1); 52-54, 57, 59: T-G-A...R...R (amino acids
52-54, 57, 59 of Sequence ID No. 1); 78-79, 82: K-G...F (amino
acids 18-19, 22 of Sequence ID No. 3); 85, 87: Q...K (amino acids
25, 27 of Sequence ID No. 3); 12-16, 18-21: [R-P-T-N-L...D-E-R-E]
R-P-T-N-L...D-E-F-E (amino acids 12-21 of Sequence ID No. 1);
27,29: Y...N (amino acids 27, 29 of Sequence ID No. 1); 35, 64-
65, 94: G...R-N...Y (amino acid 35 of Sequence ID No. 1, amino
acids 4-5, 34 of Sequence ID No. 3), substitutions with
structurally similar amino acids, and combinations thereof.

Sub
C7
Cont

25. (amended) The method of claim 17 wherein the
complement regulatory protein is decay accelerating factor
wherein one or more substitutions are introduced into the region
of the protein corresponding to decay accelerating factor short
consensus repeats SCRs 2-3 selected from the group consisting of
180-187: S-T-K-P-P-I-C-Q (amino acids 54-61 of Sequence ID No.
4); 175-178: N-A-A-H (amino acids 49-52 of Sequence ID No. 4);

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1.821(f)

Sub
C7
cont.
Sub
A-100
concl.

175-187: S-T-K-P-P-I-C-Q-N-A-A-H (Sequence ID No.9); 130: R
(amino acid 4 of Sequence ID No. 3); 145: D (amino acid 19 of
Sequence ID No. 4); 77-84: K-L-K-T-Q-T-N-A-S-D (amino acids 12-21
of Sequence ID No. 2); 90-92: S-L-K (amino acids 27-29 of
Sequence ID No. 2), substitutions with structurally similar amino
acids, and combinations thereof.

These changes are made solely to correct obvious
typographical errors and to comply with the requirements under 37
C.F.R. §§ 1.821-1.825.

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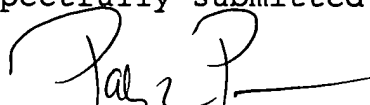
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Declaration under 37 C.F.R. § 1.821(f)

I declare that the material on the diskette is
identical to the enclosed paper copy of the Gene Sequence Listing
and the sequences as filed in the application on September 24,
1993, that the Gene Sequence Listing does not add new matter to
the application, and that all statements made on information and
belief are believed to be true and further that these statements
were made with the knowledge that willful false statements may
jeopardize the validity of the application or any patent issuing
thereon.

Respectfully submitted,



Patrea L. Pabst
Reg. No. 31,284

Date: February 10, 1994

KILPATRICK & CODY
Suite 2800
1100 Peachtree Street
Atlanta, Georgia 30309-6508
(404) 815-6508